



HAZE METER - LIGHT TRANSMITTANCE HAZE TESTER QUALIHAZE™ 1610

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STANDARDS

ASTM D1003

ASTM D1044

ASTM E308

CIE 15.2

ISO 13468

ISO 14782

JIS K 7136

JIS K7105

JIS K7361

Haze Meter - Light Transmittance Haze Tester QualiHaze™ 1610. This advanced instrument ensures accuracy in ASTM D1003 non-compensation method, ISO 13468 compensation method, full light transmittance, and haze tests. Featuring a precision concave grating and a 256-pixel CMOS detector, the QualiHaze™ 1610 delivers reliable data for transmittance, haze, and chromaticity.

With dual ISO & ASTM standards, multiple observation light sources, and dynamic measurement capabilities, it's ideal for diverse applications in glass processing, plastic processing, film, display screen processing, packaging, and liquid analysis. Explore easy operation, fast measurement, and quality management software, making the QualiHaze™ 1610 the ultimate choice for precise and repeatable results in your industry.

APPLICATIONS

Haze Meter - Light Transmittance Haze Tester

The Haze Meter - Light Transmittance Haze Tester QualiHaze™ 1610 is designed to provide precise measurements for the ASTM D1003 non-compensation method, ISO 13468 compensation method, full light transmittance, and haze tests

Featuring a precision concave grating and a 256-pixel CMOS detector, the QualiHaze™ 1610 accurately collects transmittance curves, and outputs chromaticity data, ensuring high precision and repeatability in measuring transmittance, haze, and chromaticity data.



Application of Haze Meter - Light Transmittance Haze Tester QualiHaze™ 1610:

Widely used in glass processing, plastic processing, film, display screen processing, packaging industry, liquid analysis, and other applications.

FEATURES

Key Features of Haze Meter - Light Transmittance Haze Tester QualiHaze™ 1610:

1. Dual Standard ISO & ASTM:

- Meets various user requirements and standards: ASTM D1003/1044, ISO 13468, ISO 14782, GB/T 2410, JJF 1303-2011, CIE 15.2, GB/T 3978, ASTM E308, JIS K7105, JIS K7361, JIS K 7136.

2. Multiple Observation Light Sources:

- Provides a range of color spaces and observation light sources to meet diverse measurement conditions.

3. Easy Operation and Fast Measurement:

- Equipped with a large touch control screen for convenient operation.
- Features a 256-pixel dual-array CMOS image sensor for high accuracy and repeatable measurements.
- USB data output for easy interfacing with laboratory systems.

4. Compensation Port for Accuracy:

- Adheres to ASTM D1003 non-compensation method and ISO 13468 compensation method, ensuring accurate full light transmittance and haze tests.

5. Dynamic Measurement:

- Utilizes an independent light source detector and temperature sensor to monitor changes, ensuring reliable data.

6. Convenient Measurement and Wide Sample Adaptation:

- Open measurement area allows vertical and horizontal testing to accommodate various samples.

7. Quality Management Software:

- Provides robust software for measuring and analyzing haze, color, and light transmittance.
- Suitable for quality monitoring and tabulating management in various industries.

TECHNICAL SPECIFICATIONS

Technical Specifications for Haze Meter - Light Transmittance Haze Tester QualiHaze™ 1610:

Product model	Haze Meter - Light Transmittance Haze Tester QualiHaze™ 1610
Geometry	Transmittance: 0/D (parallel illumination, diffuse receiving); Conform to the standards: ASTM D1003/1044, ISO 13468□ ISO 14782□ GB/T 2410, JJF 1303-2011□ CIE 15.2□ GB/T 3978, ASTM E308□ JIS K7105□ JIS K7361□ JIS K 7136
Characteristic	The instrument can easily realize ASTM D1003 non-compensated method, ISO 13468 compensation method, Full transmittance, haze test. The instrument can accurately collect the transmittance curve of the transmitted sample, and can accurately output various chroma data of the transmitted sample. High hardware configuration, open measurement area, vertical, horizontal testing. It is widely used in glass processing, plastic processing, film, display screen processing, packaging industry, liquid analysis and other aspects.
Integrating sphere size	Φ 154 mm
Light source	400 ~ 700 nm combined LED light source (wavelength extended is customized)
Spectrophotometric Mode	Concave grating
Sensor	256 pixel dual array CMOS image sensor
Wavelength range	400 ~ 700 nm (wavelength scalable customization)
Wavelength interval	10 nm
Half bandwidth	10 nm
Measurement Range	0-100%
Measuring aperture	Φ20 mm/Φ15 mm/Φ8 mm/Φ4 mm (select single aperture)
Sample size	Thickness less than 105 mm
Color space	CIE LAB,XYZ,Yxy,LCh,s-RGB,βxy

Chromatic formula	$\Delta E^*ab, \Delta E^*94, \Delta E^*cmc(2:1), \Delta E^*cmc(1:1), \Delta E^*00$
Other chromaticity index	Haze (ASTM D1003/1044, ISO 13468), Transmittance T (ISO), Transmittance T (ASTM), WI (ASTM E313, CIE/ISO, AATCC, Hunter), YI (ASTM D1925, ASTM 313), Absorbance, Cobalt Platinum Index, Gardner Index
Observer angle	2 °/10 °
Light source	D65,A,C,D50,D55,D75,F1,F2,F3,F4,F5,F6,F7,F8,F9,F10,F11,F12,CWF,DLF,TL83,TL84,TPL5,U30
Display Data	Spectrogram, sample chroma value, color difference/graph, color graph, color simulation, pass/fail result
Measurement time	About 1.5s
Resolution	0.01 unit
Repeatability	Φ20 mm aperture, less than 0.05(after instrument preheating and correction, test the standard nebulizer with the nebulization of about 30 at an interval of 5s for 30 times of standard deviation)
Inter-instrument Error	Φ20 mm aperture, less than 0.4 (after instrument preheating and correction, test the standard deviation between the standard nebulizer of nebulization and the reference value at an interval of 5s)
Dimensions	Length x Width x Height = 487 x 260 x 298 (mm) Length x Width x Height = 19.1732 x 10.2362 x 11.7323 (Inches)
Weight	Approx. 8.0 kg Approx. 17.637lbs
Power supply	24V 3A , DCpower adapter
Illuminant Life Span	> 3 million measurements in 5 years
Display	TFT True Color 7 inch, Capacitive Touchscreen
Interface	USB, Print Serial, Bluetooth
Data Storage	5,000 samples, 20,000 samples
Language	Simplified Chinese, Traditional Chinese, English
Operating Temperature	0 to 40 ° C (32 to 104 ° F)

Storage Temperature	- 20 - 50 ° C (-4 - 122 ° F)
Standard Accessories	Power adapter, user manual, quality management software (download), USB cable, 0% calibration box, measuring aperture
Optional Accessories	Micro printer, Test Fixture, Standard haze sheet, Footswitch
Notes:	Subject to change without notice



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